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Documents Vertical File



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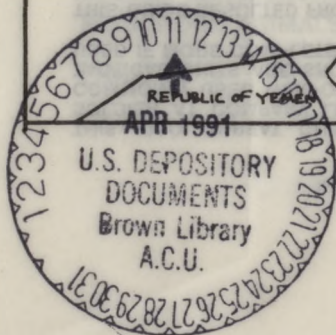
IRAQI THREAT

and HOW THEY FIGHT

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SEPTEMBER 1990
(UPDATE)

INTRODUCTION

THIS IRAQI THREAT GUIDE HAS BEEN PREPARED FOR THE SOLDIER AT COMPANY LEVEL AND BELOW. BASIC DATA ON COMMONLY USED WEAPONS AND WEAPONS SYSTEMS, AND ON TACTICAL UNITS ARE SHOWN. OTHER REFERENCES MUST BE USED IF MORE COMPLETE INFORMATION IS NEEDED.

THIS GUIDE RESULTED FROM A QUICK REACTION EFFORT BY THE US ARMY INTELLIGENCE AGENCY. IT HAS BEEN COMPILED FROM A VARIETY OF SOURCES AND WITH THE RESPONSIVE SUPPORT OF THE DEFENSE INTELLIGENCE AGENCY.

COMMENTS AND RECOMMENDED IMPROVEMENTS ARE ENCOURAGED AND MAY BE SENT TO THE FOLLOWING ADDRESS:

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THIS PAMPHLET WAS PRODUCED FROM UNCLASSIFIED SOURCES

THE US ARMY WISHES TO THANK JANE'S INFORMATION GROUP FOR GRANTING RELEASE FOR MATERIAL CHARACTERISTICS, SPECIFICATIONS, AND ILLUSTRATIONS USED IN THIS DOCUMENT. THE PREPONDERANCE OF DATA USED IS TAKEN FROM THE FOLLOWING JANE'S VOLUMES: ALL THE WORLD'S AIRCRAFT (1980-1990), ARMOUR AND ARTILLERY (1989-90), INFANTRY WEAPONS (1990-91), ARMoured FIGHTING VEHICLE SYSTEMS (1989-90), AND LAND-BASED AIR DEFENCE (1990-91).

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Amicus
Documents

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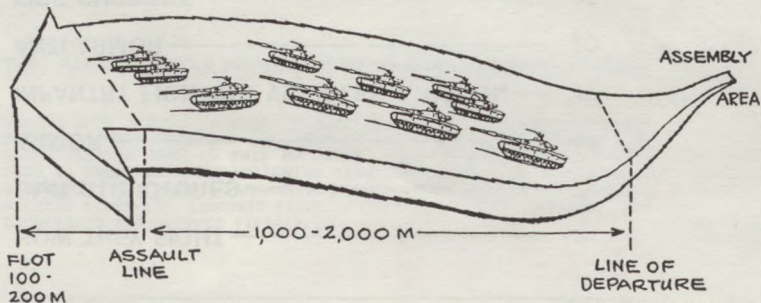
HOW THEY FIGHT

THE IRAQI ARMY WAS IN COMBAT AGAINST THE IRANIANS FOR EIGHT YEARS AND DEVELOPED INTO A BATTLE-HARDENED FORCE CAPABLE OF CONDUCTING EFFECTIVE OFFENSIVE AND DEFENSIVE OPERATIONS. THE IRAQI ARMY POLISHED ITS OFFENSIVE CAPABILITY, ACHIEVING GOOD RESULTS DURING FINAL OPERATIONS AGAINST THE IRANIANS.

THE MANEUVER BRIGADES, (ARMOR, MECHANIZED INFANTRY, AND INFANTRY), ARE THE LOWEST LEVEL UNITS CAPABLE OF INDEPENDENT OPERATIONS. A COMBAT BRIGADE, COUPLED WITH ADDITIONAL ARTILLERY, ROCKET, AVIATION, AND AIR DEFENSE SUPPORT FROM DIVISION AND HIGHER COMMANDS, MAKES A POWERFUL BATTLEFIELD FORCE.

AN ELITE FORCE, THE REPUBLICAN GUARDS FORCES COMMAND WAS INITIALLY ORGANIZED TO PROTECT THE IRAQI GOVERNMENT. LATER, THIS FORCE WAS EMPLOYED IN HIGHLY SUCCESSFUL OFFENSIVE OPERATIONS AGAINST THE IRANIANS. RECENTLY, BRIGADES OF THE REPUBLICAN GUARDS CONDUCTED THE BLITZ TYPE ATTACK INTO KUWAIT.

THE FOLLOWING PAGES SHOW THE ORGANIZATION AND EQUIPMENT OF THE IRAQI ARMY.



OFFENSIVE OPERATIONS

- * COMBINED ARMS FORMATIONS COMMON
- * INFANTRY AND ENGINEERS LEAD THROUGH MINEFIELDS
- * CLEAR AND OPEN TERRAIN...TANKS LEAD
- * BROKEN TERRAIN OR MINES AND OBSTACLES...INFANTRY LEADS
- * ARTILLERY PREP...
 - ** 45-60 MINUTES BEFORE ASSAULT
 - ** THEN SHIFTS TO DEEP TARGETS
 - ** CHEMICAL WEAPONS OFTEN MIXED WITH PREP
- * ENEMY REINFORCEMENTS ATTACKED BY AIR AND ARTILLERY
- * ATTACKS ATTEMPT TO BYPASS STRONG POINTS
- * ENVELOPMENT PREFERRED
- * VERTICAL ENVELOPMENT MAY SUPPORT ATTACK
- * NAVAL INFANTRY MAY PROVIDE AMPHIBIOUS SUPPORT
- * ATTACK HELICOPTER TECHNIQUES..THREE AIRCRAFT TEAM
 - ** BATTLE CAPTAIN IN HIND DIRECTS:
 - *** GAZELLE ARMED WITH HOT MISSILES
 - *** BO-105 ARMED WITH ROCKETS
- * HINDS DEPLOYED IN GROUPS OF 4 OR MORE TO:
 - ** LOFT ROCKETS FROM LOW ALTITUDE
 - ** POP-UP AND ENGAGE FROM MULTIPLE DIRECTIONS

HOW THEY FIGHT

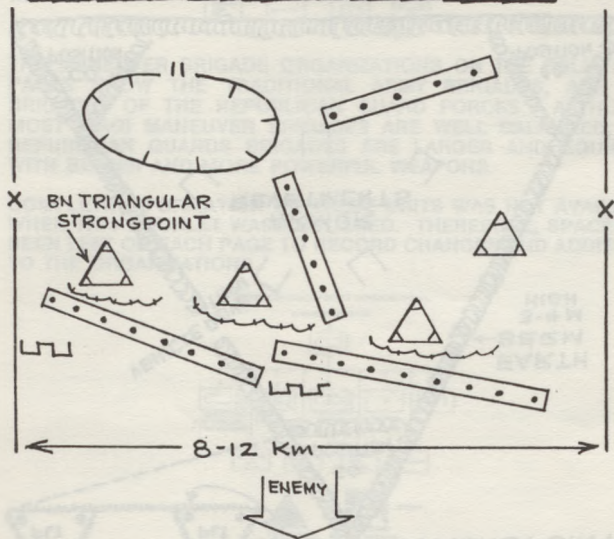
DEFENSIVE OPERATIONS

4

- * SECURITY ZONE FORWARD OF FLOT
 - ** RECON UNITS REINFORCED BY INF AND ARTY
- * STRONG FORWARD DEFENSIVE POSITIONS
- * DEFENSE IN DEPTH..OBSTACLES IN DEPTH
- * MAXIMUM USE OF NATURAL AND MANMADE OBSTACLES
- * MINEFIELDS COVER FORWARD POSITIONS
 - ** UP TO 350 METERS DEEP
 - ** MIX NORMALLY 3 AP AND 1 AT PER CLUSTER
 - ** MIXED WITH BARBED WIRE
- * MAXIMUM USE OF TANK DITCHES AND BERMS
- * TANK-HEAVY RESERVE USED FOR COUNTERATTACK
- * ATGM DEPLOYED FORWARD
- * TANKS ARE FORWARD WHEN NEEDED IN ANTITANK ROLE
- * ANTI-TANK TACTICS
 - ** CHANNEL ENEMY TANKS TO OPEN AREAS
 - ** EMPLOY ANTI-TANK WEAPONS IN DEPTH
 - ** COMMANDOS IN REAR AREA AMBUSH TANKS

UNIT STRUCTURES

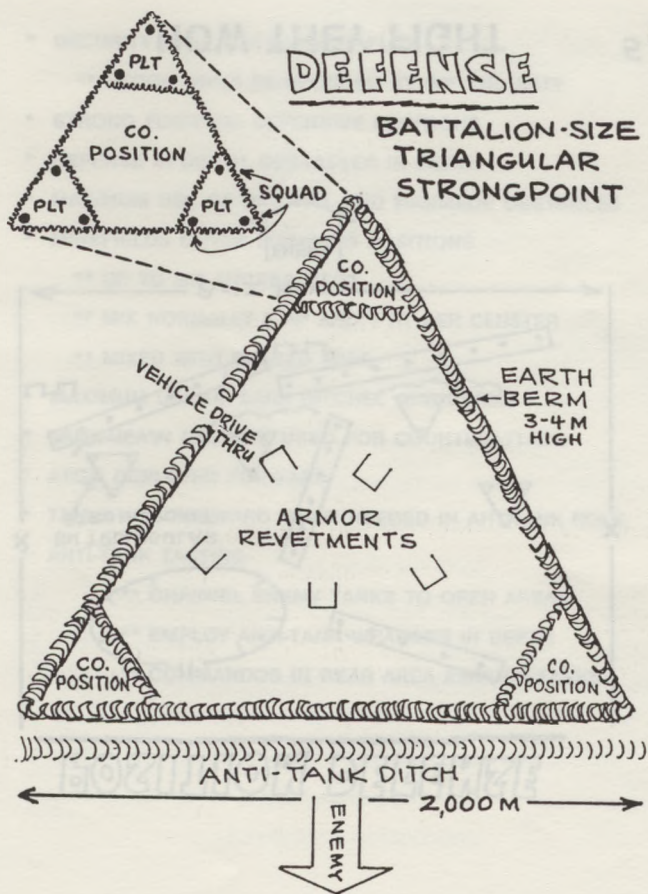
POSITION DEFENSE



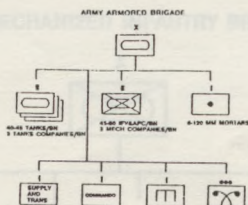
HOW THEY FIGHT

DEFENSE

BATTALION-SIZE TRIANGULAR STRONGPOINT

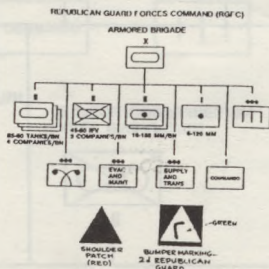


UNIT STRUCTURES



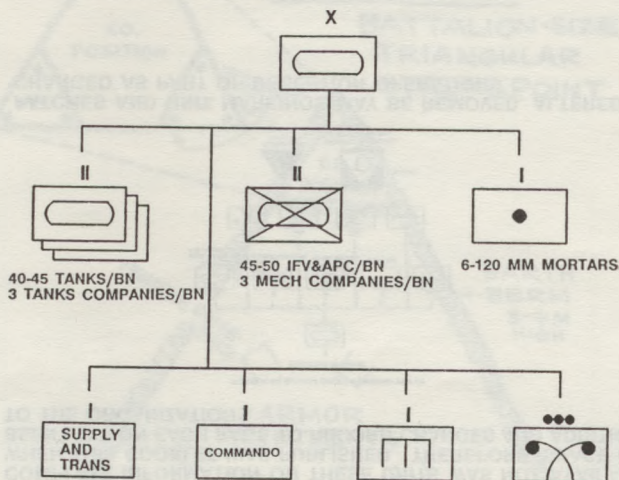
THE MANEUVER BRIGADE ORGANIZATIONS ON THE FOLLOWING PAGES SHOW THE TRADITIONAL ARMY BRIGADES, AND THE BRIGADES OF THE REPUBLICAN GUARD FORCES. ALTHOUGH MOST IRAQI MANEUVER BRIGADES ARE WELL BALANCED, THE REPUBLICAN GUARDS BRIGADES ARE LARGER AND EQUIPPED WITH BETTER AND MORE POWERFUL WEAPONS.

COMPLETE INFORMATION ON THESE UNITS WAS NOT AVAILABLE WHEN THIS BOOKLET WAS PUBLISHED. THEREFORE, SPACE HAS BEEN LEFT ON EACH PAGE TO RECORD CHANGES AND ADDITIONS TO THE ORGANIZATIONS.

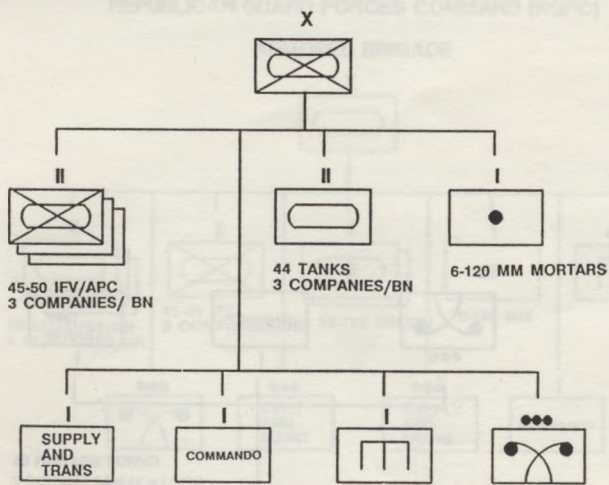


PATCHES AND UNIT MARKINGS MAY BE REMOVED, ALTERED, OR CHANGED AS PART OF DECEPTION OPERATIONS.

ARMY ARMORED BRIGADE



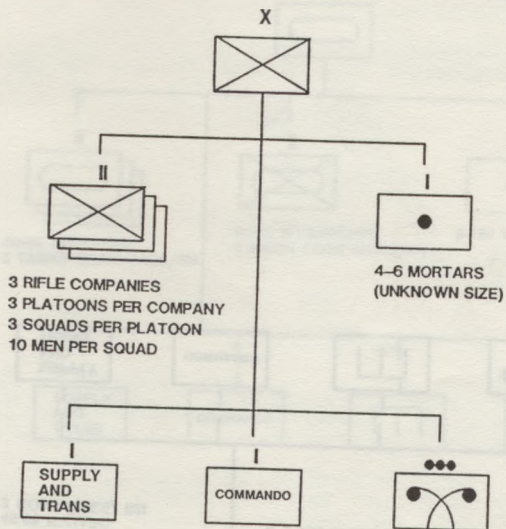
ARMY MECHANIZED INFANTRY BRIGADE



UNIT STRUCTURES

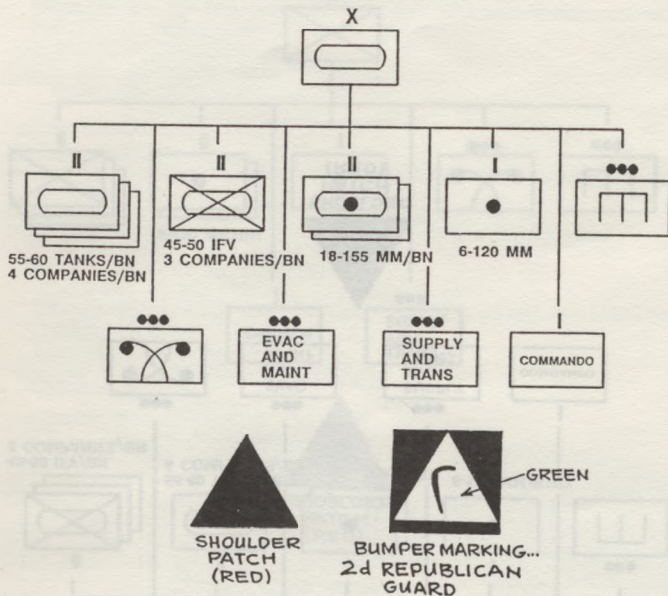
ARMY INFANTRY BRIGADE

10



REPUBLICAN GUARD FORCES COMMAND (RGFC)

ARMORED BRIGADE



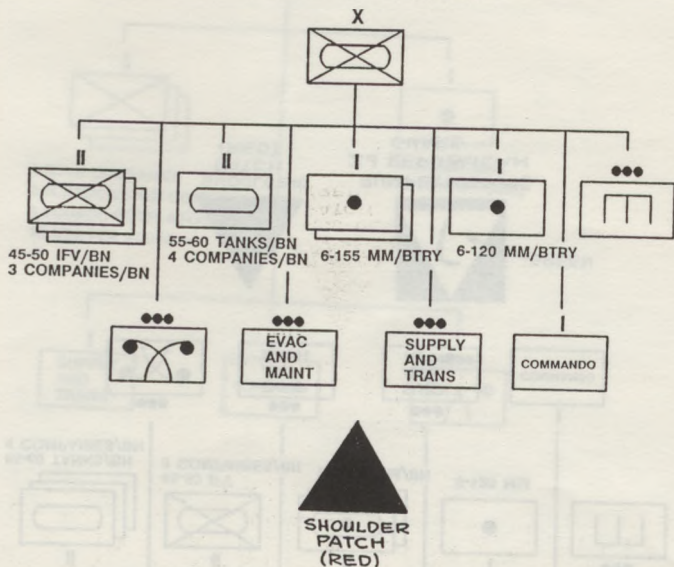
UNIT STRUCTURES

11

REPUBLICAN GUARD FORCES COMMAND (RGFC)

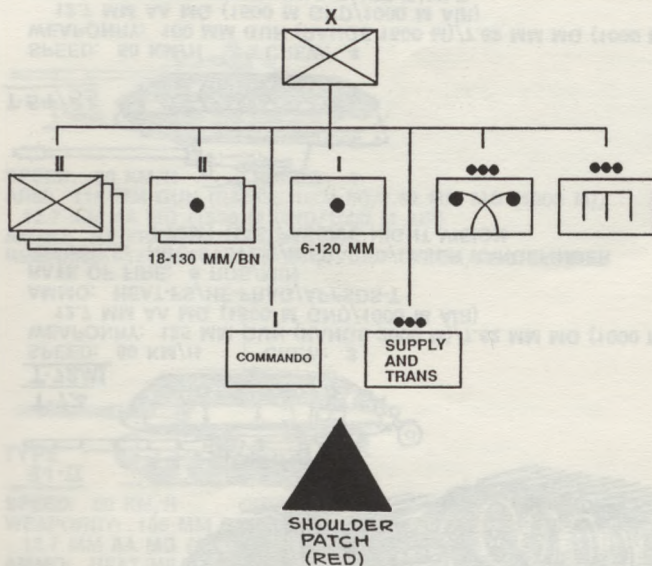
12

MECHANIZED BRIGADE



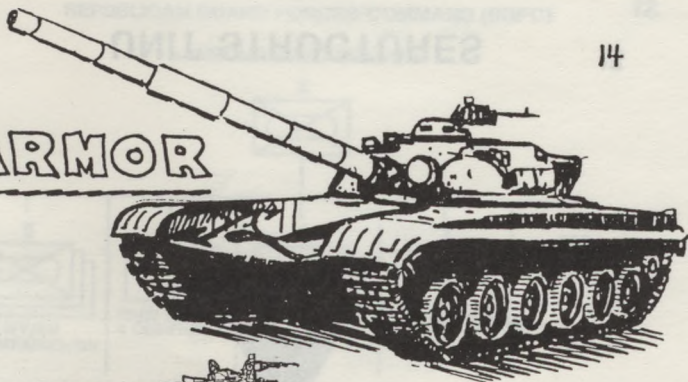
REPUBLICAN GUARD FORCES COMMAND (RGFC)

INFANTRY BRIGADE



UNIT STRUCTURES

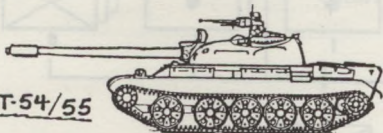
ARMOR



T-72

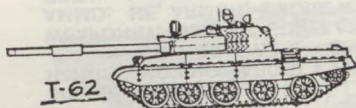
T-72M1

SPEED: 80 KM/H CREW: 3
 WEAPONRY: 125 MM GUN (RANGE 2000 M)/7.62 MM MG (1000 M)/
 12.7 MM AA MG (1500 M GND/1000 M AIR)
 AMMO: HEAT-FS/HE-FRAG/APFSDS-T
 RATE OF FIRE: 8 RDS/MIN
 REMARKS: NBC SYSTEM/INFRARED/LASER RANGEFINDER
 T-72M1 HAS PASSIVE NIGHT VISION

T-54/55

SPEED: 50 KM/H CREW: 4
 WEAPONRY: 100 MM GUN (RANGE 1500 M)/7.62 MM MG (1000 M)/
 12.7 MM AA MG (1500 M GND/1000 M AIR)
 AMMO: HE-FRAG/HEAT/HVAP-T/APC-T/AP-T
 RATE OF FIRE: 5-7 RDS/MIN
 REMARKS: TELESCOPIC SIGHT/NIGHT VISION

INF FIGHTING VEHICLES and RECON



T-62

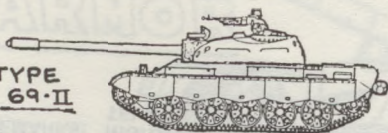
SPEED: 50 KM/H CREW: 4
ARM: 115 MM GUN (RANGE 1600 M)/7.62 MM MG (1000 M)/
12.7 MM AA MG (1500 M GND/1000 M AIR)
AMMO: HE FRAG/HEAT-FS/APFSDS
REMARKS: TELESCOPIC SIGHT/NIGHT VISION/NBC SYSTEM



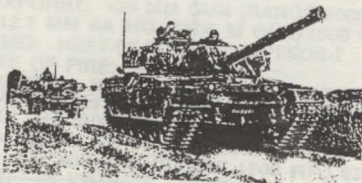
TYPE
59-II

SPEED: 50 KM/H CREW: 4
WEAPONRY: 105 MM GUN (RANGE 1800 M)/7.62 MM MG (1000M)/
12.7 MM AA MG (1500 M GND/1000 M AIR)
AMMO: HEAT/HE/APHE/APFSDS
REMARKS: NIGHT VISION/LASER RANGE FINDER
TELESCOPIC SIGHT

TYPE
69-II



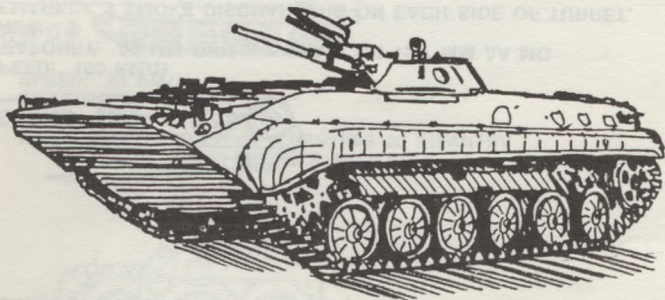
SPEED: 50 KM/H CREW: 4
 WEAPONRY: 100 MM GUN (RANGE 1500 M)/7.62 MM MG (1000 M)/
 12.7 MM AA MG (1500 M GND/1000 M AIR)
 AMMO: HEAT/HE/APHE/HVAPDS
 REMARKS: INFRA-RED/LASER RANGE FINDER/NBC SYSTEM



CHIEFTAIN

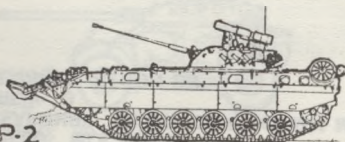
SPEED: 48 KM/HR
 RANGE: MOVING TARGET - 2000 M
 STATIONARY - 3000 M
 WEAPONRY: 120 MM GUN/7.62 MM MG
 AMMO: HE, ARMOR, SMOKE & WP
 CREW: 4
 RATE OF FIRE: 6 - 10 RDS/MIN
 REMARKS: SMOKE DISCHARGERS
 LASER RANGEFINDER

INF FIGHTING VEHICLES and RECON



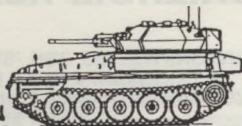
BMP-1

SPEED: 80 KM/H
WEAPONRY: 73 MM GUN/7.62 MM MG/SAGGER ATGM
CREW: 3
REMARKS: CAPABLE OF CARRYING 8 INFANTRY/
REPUBLICAN GUARDS MECH UNITS/

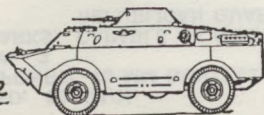


BMP-2

SPEED: 65 KM/H
WEAPONRY: 30MM CANNON/7.62MM MG/SPIGOT ATGM
CREW: 3 PLUS 7 INFANTRY
REMARKS: NBC SYSTEM/INFRARED

SCORPION

SPEED: 80.5 KM/H
 WEAPONRY: 76 MM GUN/7.62 MM MG
 CREW: 3
 REMARKS: RECON BN

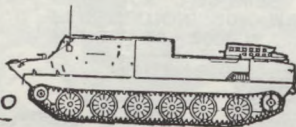
BRDM-2

SPEED: 100 KM/H
 WEAPONRY: 7.62 & 14.5 MM MG'S/OR 3 SAGGER
 ATGM'S/OR SA-9
 CREW: 4
 REMARKS: RECON SCOUT VEHICLE / NBC SYSTEM

CASCADEL

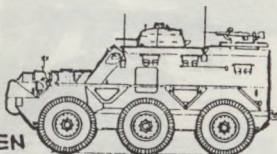
SPEED: 100 KM/H
 WEAPONRY: 90 MM GUN & 7.62 MG OR 12.7 MM AA MG
 CREW: 3
 REMARKS: 3 SMOKE DISCHARGERS ON EACH SIDE OF TURRET.

BTR-50



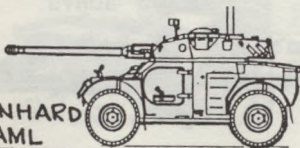
SPEED: 44 KM/H
WEAPONRY: 7.62 MM MG
CREW: 2
REMARKS: CAPABLE OF CARRYING 20 INFANTRY
OT-62B/C MODELS AVAILABLE

ALVIS SARACEN



SPEED: 72 KM/H
WEAPONRY: 2 X 7.62 MM MG
CREW: 2
REMARKS: CAPABLE OF CARRYING 10 INFANTRY

PANHARD AML



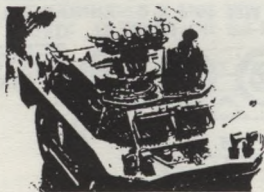
SPEED: 90 KM/H
WEAPONRY: 90 MM GUN/7.62 MM MG/HOT ATGM
CREW: 3
REMARKS: RECON VEHICLE

INFANTRY FIGHTING VEHICLES

ANTI-ARMOR



RANGE: 500 M
 PENETRATION: 260 MM
 RATE OF FIRE: 4 - 6 RDS/MIN
 GUIDANCE: OPTICAL



AT-5 SPANDREL

RANGE: 4000 M
 PENETRATION: 500 - 600 MM
 GUIDANCE: SACLOS WIRE



MILAN

RANGE: 25 - 2000 M
 PENETRATION: 1060 MM
 GUIDANCE: LOS WIRE

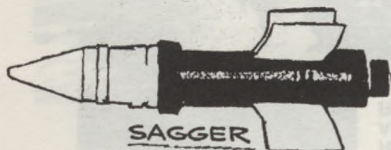


IRAQ REPORTEDLY HAS
TOW AND ITOW
ANTI-TANK MISSILES.

AT-4
SPIGOT

NOTE!

RANGE: 70 - 2500 M
PENETRATION: 600 MM
GUIDANCE: LOS WIRE



RANGE: 500 - 3000 M
PENETRATION: 400 MM +
GUIDANCE: LOS WIRE

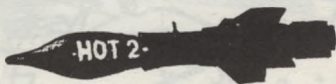


SWATTER

RANGE: 600 - 2500 M
PENETRATION: 400 MM +
GUIDANCE: RADIO LINK

HOT

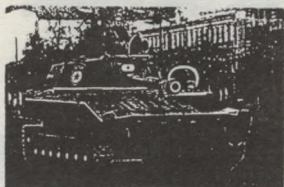
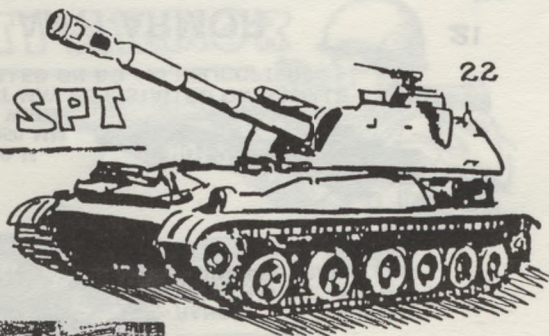
RANGE: 75 - 4000 M
PENETRATION: 850 MM
GUIDANCE: LOS WIRE
REMARKS: 4 HOT MAY BE INSTALLED ON GAZELLE & 6 HOT
INSTALLED ON BO 105 HELICOPTERS



ANTI-ARMOR

21

FIRE SPT

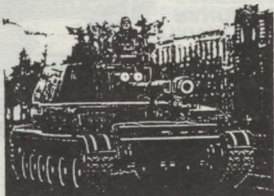


2S1-SP GUN/HOW

CALIBER: 122 MM
RANGE: 15,300 M
AMMO: HE, SMOKE, HEAT-FS
RATE OF FIRE: 5 RDS/MIN

2S3-SP GUN/HOW

CALIBER: 152 MM
RANGE: 27,000 M
AMMO: HE, CHEMICAL, HEAT-FS, AP-T, SMOKE & ILLUM
RATE OF FIRE: 4 RDS/MIN



D-20 GUN/HOW

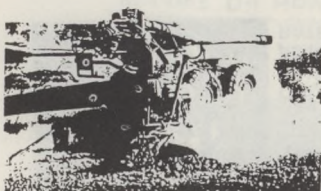
CALIBER: 152 MM
RANGE: 17,000 M
AMMO: HE, CP, AP-T, ILLUM, HEAT, SMOKE,
RATE OF FIRE: 5 RDS/MIN CHEMICAL





GHN-45 GUN/HOW

CALIBER: 155 MM
 RANGE: 30,300 M
 AMMO: HE, ILLUM, SMOKE
 RATE OF FIRE: 2 - 7 RDS/MIN



G-5 GUN/HOW

CALIBER: 155 MM
 RANGE: 39,000 M
 AMMO: HE, SMOKE, ILLUM, WP
 RATE OF FIRE: 3 RDS/MIN

M-46 GUN



CALIBER: 130 MM
 RANGE: 27,500 M
 AMMO: HE, AP-T, CHEMICAL, ILLUM, SMOKE
 RATE OF FIRE: 1 - 2 RDS/MIN

FIRE SUPPORT

D-30
HOW

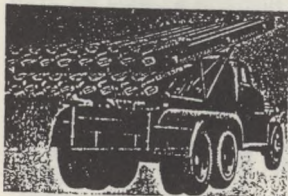


CALIBER: 122 MM
 RANGE: 15,300 M
 AMMO: HE, HEAR-FS, CHEMICAL, ILLUM, SMOKE
 RATE OF FIRE: 1 - 2 RDS/MIN



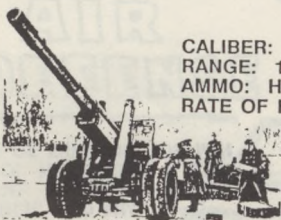
BM-21 MRL

CALIBER: 122 MM (40 TUBES)
 RANGE: 20,500 M
 AMMO: HE, SMOKE, CHEMICAL, WP
 RATE OF FIRE: 40 RDS EVERY 10 MIN.



BM-13/16 MRL

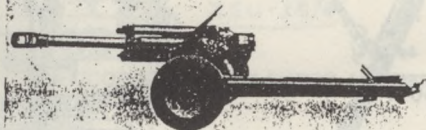
CALIBER: 132 MM
 RANGE: 8000 M
 AMMO: HE
 RATE OF FIRE: 16 RDS EVERY 15 MIN



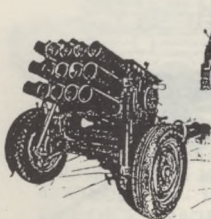
M-1937 (ML-20) GUN/HOW

CALIBER: 152 MM
 RANGE: 17,000 M
 AMMO: HE, AP-T, HEAT, ILLUM, SMOKE
 RATE OF FIRE: 4 RDS/MIN

M-1943 D-1 HOW



CALIBER: 152 MM
 RANGE: 12,400 M
 AMMO: HE, CP, HEAT, ILLUM, CHEMICAL
 RATE OF FIRE: 1 RD/MIN



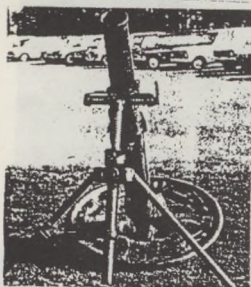
TYPE 63 MRL

CALIBER: 107 MM
 RANGE: 10,100 M
 AMMO: HE
 RATE OF FIRE: 12 RDS IN 15 SEC
 NOTE: TOWED & TRUCK-MOUNTED
 VERSIONS SHOWN

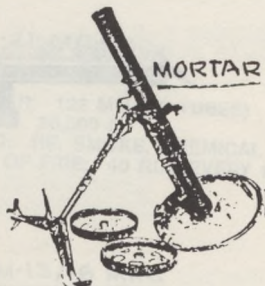
FIRE SUPPORT

TYPE 66 GUN/HOW

CALIBER: 152 MM
 RANGE: 17,200 M
 AMMO: HE, SMOKE
 RATE OF FIRE: 3 RDS/MIN

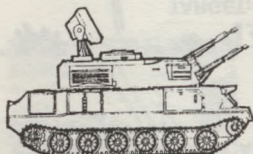
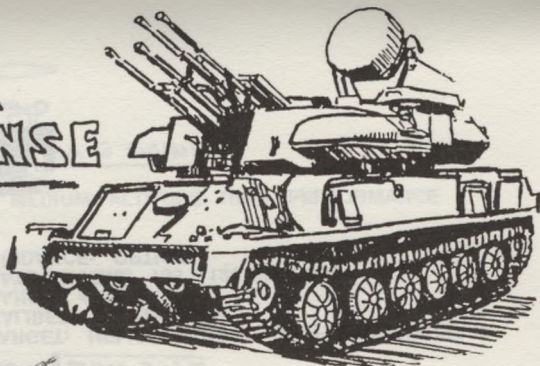
MORTAR

CALIBER: 120 MM
 RANGE: 5,700 M
 AMMO: HE, SMOKE, ILLUM
 RATE OF FIRE: 15 RDS/MIN



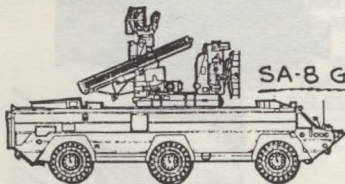
CALIBER: 82 MM
 RANGE: 3100 M
 AMMO: HE, SMOKE
 RATE OF FIRE: 15 RDS/MIN

AIR DEFENSE



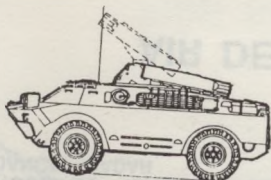
ZSU-23/4

TARGET: HELICOPTERS & LOW FLYING AIRCRAFT
CALIBER: 23 MM GUNS
RANGE: 2500M
RATE OF FIRE: 850-1000 RDS/MIN PER GUN
GUIDANCE: RADAR



SA-8 GECKO

TARGET: LOW TO MEDIUM ALTITUDE HI-PERFORMANCE
AIRCRAFT AND HELICOPTERS
RANGE: 15,000 M
ALTITUDE: 10 - 12,200 M
GUIDANCE: RADAR

SA-9 GASKIN

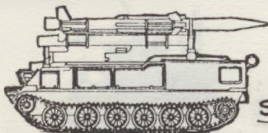
TARGET: HELICOPTERS & SLOW FLYING AIRCRAFT
 RANGE: .8 - 5 KM
 ALTITUDE: 10 - 4500 M
 GUIDANCE: INFRARED HOMING

ROLAND I/II

TARGET: HIGH PERFORMANCE AIRCRAFT
 RANGE: 700 - 6300 M
 ALTITUDE: 10 - 5500 M
 GUIDANCE: OPTICAL/RADAR

ZSU-57/2

TARGET: HELICOPTERS & LOW FLYING AIRCRAFT
 CALIBER: 57 MM GUNS
 RANGE: 4000 M
 RATE OF FIRE: 105 - 120 RDS/MIN
 GUIDANCE: OPTICAL



SA-6 GAINFUL

TARGET: LOW TO MEDIUM ALTITUDE HIGH PERFORMANCE
AIRCRAFT
RANGE: 4 - 24 KM
ALTITUDE: 15 KM
GUIDANCE: SEMI ACTIVE HOMING



M-53/59 & M-53/70

TARGET: AERIAL & GROUND
CALIBER: 30 MM GUN
RANGE: LIGHT ARMORED VEHICLES - 2000 M
AERIAL - 3000 M
RATE OF FIRE: 420 - 450 RDS/MIN PER GUN
GUIDANCE: TRACER OBSERVATION (AERIAL)
TELESCOPE (GROUND)



100 mm KS-19

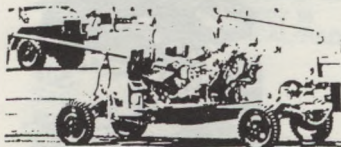
TARGET: AERIAL & GROUND
RANGE: 12,600 M
RATE OF FIRE: 15 RDS/MIN
PENETRATION: 185 MM AT 500 M/170 MM AT 1000 M
GUIDANCE: RADAR/DIRECT FIRE OPTICAL

AIR DEFENSE



85mm M-1939
KS-12

TARGET: AERIAL & GROUND
RANGE: 10,000 M
RATE OF FIRE: 15-20 RD/MIN
GUIDANCE: RADAR/OPTICAL



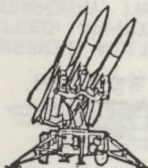
57mm S-60

TARGET: HELICOPTERS & SLOW FLYING AIRCRAFT
RANGE: 4,000 M
RATE OF FIRE: 105 - 120 RDS/MIN
GUIDANCE: OPTICAL & RADAR



37mm M-1939

TARGET: HELICOPTERS & SLOW FLYING AIRCRAFT
RANGE: 4000 M
RATE OF FIRE: 160 - 180 RDS/MIN
GUIDANCE: OPTICAL



I HAWK

TARGET: HIGH PERFORMANCE AIRCRAFT
RANGE: LOW ALTITUDE: 3500 - 16,000 M
HIGH ALTITUDE: 2000 - 32,000 M
GUIDANCE: RADAR

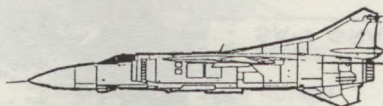
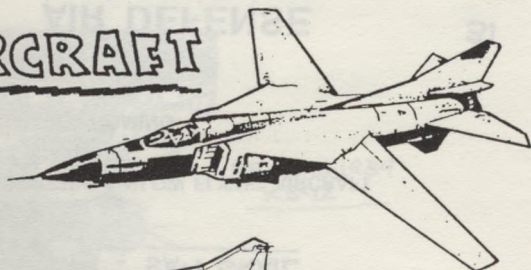


SA-7 GRAIL

TARGET: HELICOPTERS & SLOW FLYING AIRCRAFT
RANGE: .7 - 5 KM
ALTITUDE: 10 - 4500 M
GUIDANCE: INFRARED HOMING

AIR DEFENSE

AIRCRAFT

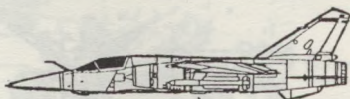


MIG-23 FLOGGER

MISSION: FIGHTER/GROUND ATTACK

SPEED: APPROX 725 MPH AT SEA LEVEL

WEAPONRY: 23 MM GUN, 2 APEX MISSILES, 2 OR 4 APHID OR 2 ATOLL MISSILES, 57 MM AND 80 MM ROCKETS, 1,000 LB BOMBS, SURFACE-TO-AIR MISSILES

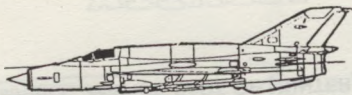


MIRAGE F-1

MISSION: MULTI-ROLE-AIR SUPERIORITY/GROUND ATTACK

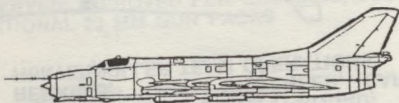
SPEED: APPROX 625 MPH AT SEA LEVEL

WEAPONRY: TWO 30 MM CANNON & OVER 8800 LB OPERATIONAL LOAD WITH A MIX OF MISSILE, BOMBS AND ROCKETS



MIG-21 FISHBED

MISSION: CLOSE AIR SUPPORT
 SPEED: APPROX 675 MPH AT SEA LEVEL
 WEAPONRY: TWIN BARREL 23 MM GUN, BOMBS AND 57 MM
 ROCKETS



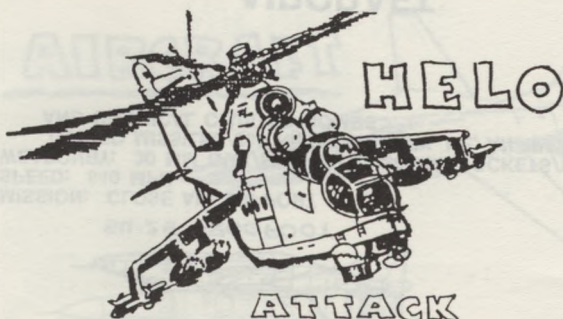
SU-17 FITTER

MISSION: ATTACK
 SPEED: APPROX 725 MPH AT SEA LEVEL
 WEAPONRY: 30 MM GUN/7000+ LBS - BOMB, ROCKET AND
 GUIDED MISSILE CAPABILITY



SU-25 FROGFOOT

MISSION: CLOSE AIR SUPPORT
 SPEED: 540 MPH
 WEAPONRY: 30 MM GUN/57 MM TO 330 MM ROCKETS/LASER
 GUIDED MISSILES/500 Kg INCENDIARY, HE, ANTIPERSONNEL
 AND CHEMICAL CLUSTER BOMBS



MISSION: ASSAULT/ATTACK

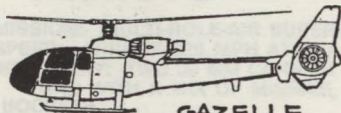
SPEED: 185 MPH

WEAPONRY: 12.7MM MG/ATGM (SWATTER)/

57MM ROCKET/80MM ROCKET/TWIN 23MM GUNS/3,300 LBS OF
CHEMICAL AND CONVENTIONAL BOMBS.

LIFT CAPABILITY: 8 MEN (1-SQUAD)

REMARKS: MINE DISPENSER, CAPABLE/MAY BE PART OF
HUNTER/KILLER TEAM OPERATIONS.



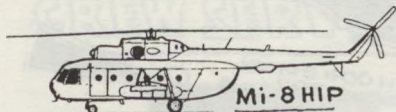
MISSION: ATTACK

SPEED: 140 MPH

WEAPONRY: TWO 7.6MM MG OR 20 MM GUN/TWO PODS 68MM
OR 2.75 IN ROCKETS, 4-6 HOT ATGM.

REMARKS: MAY BE PART OF HUNTER/KILLER TEAM OPERATIONS

ASSAULT



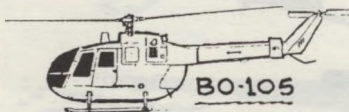
MISSION: ASSAULT/AIRLIFT

SPEED: 155 MPH

WEAPONRY: 12.7MM MG/57MM ROCKET/ATGM CAPABLE

LIFT CAPABILITY: 24 MEN

REMARKS: UPRATED MODEL, MI-17 (HIP H) HAS BEEN OBSERVED; IMPROVED PERFORMANCE/COCKPIT ARMOR WITH ADDITIONAL 23 MM GUN PACKS



MISSION: ATTACK

SPEED: 168 MPH

WEAPONRY: 6 HOT ATGM, 7.62 MM GUNS, 80 MM ROCKETS

REMARKS: MAY BE PART OF HUNTER/KILLER TEAM OPERATIONS.



ALOUETTE

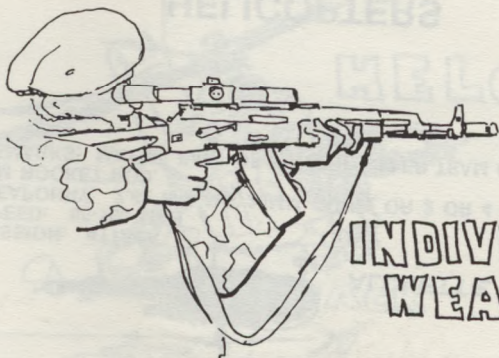
MISSION: ATTACK

SPEED: 95-100 MPH

WEAPONRY: 7.62 MM MG/20MM GUN// OR 2 OR 4 ATGM OR 68 MM ROCKET POD.

REMARKS: MAY BE PART OF HUNTER/KILLER TEAM OPERATIONS.

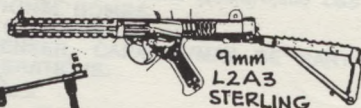
HELICOPTERS



INDIVIDUAL WEAPONS



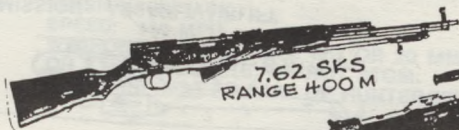
7.62 AK-47
RANGE 300 M



9mm
L2A3
STERLING



7.62 RPD
RANGE 800 M



7.62 SKS
RANGE 400 M



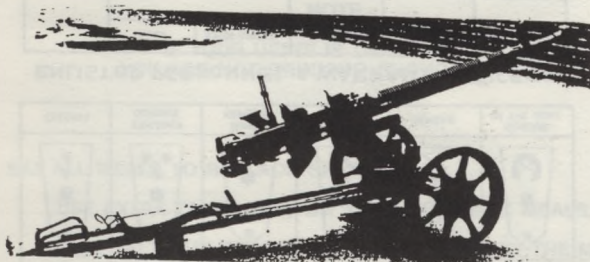
7.62 FN
RANGE 1200 M

CREW SERVED WPNS



**SGM MEDIUM
MACHINE GUN**

AMMO: 7.62 MM
EFFECTIVE RANGE: 1000 M
RATE OF FIRE: 650 RDS/MIN



DSHK HEAVY MACHINE GUN

AMMO: 12.7 MM
EFFECTIVE RANGE: 2000 M
RATE OF FIRE: 575 RDS/MIN

CREW-SERVED WEAPONS

IRAQI RANK INSIGNIA & U.S. EQUIVALENTS 38

COMMISSIONED OFFICERS

IRAQI ARMY, AIR FORCE, AND NAVY	MULAZIM	MULAZIM AWWAL	NAQIB	RAID	MUQADDAM
ARMY AND AIR FORCE					
U. S. EQUIVALENT	2D LIEUTENANT	1ST LIEUTENANT	CAPTAIN	MAJOR	LIEUTENANT COLONEL

AQID	AMID	LIWA	FARIQ	FARIQ AWWAL	MUSHIR
COLONEL	BRIGADIER GENERAL	MAJOR GENERAL	LIEUTENANT GENERAL	GENERAL	GENERAL OF THE ARMY

ENLISTED PERSONNEL & WARRANT OFFICERS

	JUNDI	JUNDI AWWAL	NAIB ARIIF	ARIIF	RAIS URAFA
ARMY AND AIR FORCE					
U. S. ARMY EQUIVALENT	PRIVATE	PRIVATE 1ST CLASS	CORPORAL	SERGEANT	STAFF SERGEANT
U. S. AIR FORCE EQUIVALENT	AIRMAN	AIRMAN 1ST CLASS	SERGEANT	STAFF SERGEANT	TECHNICAL SERGEANT

RAIS URAFA			NAIB ZABET		
	N/A	N/A		N/A	N/A
(SAME AS STAFF SGT.)					
SERGEANT 1ST CLASS	MASTER SERGEANT	SERGEANT MAJOR	WARRANT OFFICER (WO)	CHIEF WARRANT OFFICER (CWO-2)	CHIEF WARRANT OFFICER (CWO-3)
MASTER SERGEANT	SENIOR MASTER SERGEANT	CHIEF MASTER SERGEANT	WARRANT OFFICER (WO)	CHIEF WARRANT OFFICER (CWO-2)	CHIEF WARRANT OFFICER (CWO-3)

HEAT INJURIES

DRINK PLENTY OF WATER

DEPENDING ON THE HEAT, YOU MAY NEED TO DRINK FROM 1/2 TO 2 QUARTS OF WATER PER HOUR-4 GALLONS OR MORE PER DAY IN HOT DRY CLIMATES; THEREFORE, YOU SHOULD-

- * DRINK EXTRA WATER BEFORE STARTING ANY MISSION OR HARD WORK.
- * DRINK SMALL QUANTITIES FREQUENTLY
- * DRINK WATER EVEN IF YOU ARE NOT THIRSTY
- * REFILL YOUR CANTEENS AT EVERY OPPORTUNITY

NOTE

IF YOUR URINE IS DARK YELLOW,
YOU ARE NOT DRINKING ENOUGH WATER!

EAT ALL MEALS TO REPLACE SALT

USE EXTRA TABLE SALT ON YOUR FOODS AT MEALS.

TAKE SALT TABLETS ONLY WHEN DIRECTED BY THE MEDICS.

RECOGNIZE THE INCREASED HEAT STRESS RISK IN:

- * MOPP
- * BODY ARMOR
- * ARMORED VEHICLES

MEDICAL - CHEMICAL



CHEMICAL AGENTS

THE IRAQIS MAY MIX BLISTER AGENT MUSTARD AND NERVE AGENTS TABUN AND SARIN WITH ARTILLERY FIRE.

DELIVERY SYSTEMS ARE:

- * BOMBS
- * ROCKETS
- * ARTILLERY SHELLS
- * AIRCRAFT DELIVERED SPRAYS

POISONOUS ANIMALS



SPIDERS, SCORPIONS AND SNAKES

THE OVERALL THREAT FROM VENOMOUS ANIMALS IN THE NORTHWESTERN PERSIAN GULF IS LOW. ENCOUNTERS WILL BE LOW DURING DAYLIGHT, INCREASING WITH DARKNESS. NORMAL CLOTHING IS GENERALLY ADEQUATE TO PREVENT MOST BITES. THE FOLLOWING ANIMALS ARE LISTED IN ORDER, THE MOST DANGEROUS AT THE TOP. REMEMBER...

IF IT MOVES, DON'T TOUCH IT!!

CARPET VIPER (SAW-SCALED VIPER)

- * .4 TO .9 METERS LONG, SHORT AND STOUT, HEAD IS WIDE, BLUNT SNOUT
- * BACK IS TAN, BROWN, BUFF, OLIVE, OR REDDISH WITH WHITE SPOTS AND LONG WHITE LINE ALONG EACH SIDE. BELLY IS WHITE TO PINKISH BROWN WITH GREY SPOTS.
- * LIVES: BAREN, ROCKY, SANDY DESERT, DRY BUSH
- * TRAITS:
 - HUNTS AT NIGHT
 - VERY ALERT, STRIKES FAST & OFTEN
 - COILS INTO FIGURE "S"
 - MAKES A RASPING SOUND AS WARNING
- * BITE: PAIN - SWELLING AT BITE - BLEEDING FROM GUMS, NOSE AND KIDNEYS

EGYPTIAN COBRA

- * 1.5 TO 2.5 METERS LONG, MODERATELY STOUT BODY
- * BACK IS YELLOW, DARK BROWN OR ALMOST BLACK, HEAD AND NECK ALWAYS DARKER, DARK BARS ACROSS NECK AT HOOD, BELLY IS YELLOW AND BROWN
- * LIVES:
 - FLAT LANDS, SCRUB BRUSH
 - IRRIGATED FIELDS
 - ROCKY HILLSIDES
 - NEAR RODENT POPULATIONS
- * TRAITS:
 - HOLDS AND CHEWS SAVAGELY
 - MAY RAISE HEAD AND SPREAD HOOD
 - MAY BITE WITHOUT WARNING
- * BITE: HIGHLY TOXIC, PAIN AND SWELLING, MAY CAUSE RESPIRATORY OR CARDIAC ARREST

HORNED DESERT VIPER

- * .5 TO .7 METERS LENGTH, WIDE BODY, SHORT WIDE HEAD, BLUNT SNOUT, SCALE COVERED HORNS ABOVE EYES
- * PALE GRAY, OR BLuish GRAY TO KHAKI WITH BROWNISH GRAY BLOTCHES OR NARROW CROSSBANDS, WHITE BELLY, BLACK TAIL
- * LIVES:
 - VERY ARID AREAS
 - BURROWS IN LOOSE SAND
 - HIDES IN RODENT HOLES
- * TRAITS:
 - SLUGGISH BY DAY
 - AGGRESSIVE AT NIGHT
- * BITE: HIGHLY TOXIC, WEAKNESS AND IMMOBILITY 2 TO 3 HOURS AFTER BITE.

PUFF ADDER

- * .9 TO 1.3 METERS AVERAGE LENGTH, LARGE, STOUT, HEAVY BODY
- * HEAD IS BROAD AND TRIANGULAR WITH 4 YELLOW STREAKS (TWO FROM EACH EYE TO LIP), BACK IS BROWN OR YELLOW, WITH V SHAPED MARKS ALONG BACKBONE, VERY LONG FANGS, SHORT TAIL
- * LIVES:
 - SELDOM FOUND IN VERY WET OR DRY AREAS.
 - NEAR HOUSES, IN OR NEAR BUILDINGS
- * TRAITS
 - EASILY EXCITED
 - MAY INFLATE BODY AND HISS
- * BITE: CAN INJECT LARGE AMOUNTS OF VENOM - SEVERE PAIN - SWELLING - LOWERED BLOOD PRESSURE, SHOCK

LEVENTINE VIPER

- * UP TO 1.6 METERS LONG, VERY LARGE FANGS, TAIL TAPERS ABRUPTLY
- * BACK HAS BROWN CIRCLES WITH LIGHT CENTERS, GRAY, GRAY BROWN, OR YELLOWISH WITH GRAY BELLY, PINKISH BROWN TAIL
- * LIVES:
 - DRY ROCKY AREAS
 - MOUNTAINS UP TO 2000 METERS ELEVATION
 - BUSHES
- * TRAITS:
 - CALM DURING DAY, BUT WILL STRIKE
 - AGGRESSIVE AT NIGHT
- * BITE: BLEEDING FROM WOUND, IMMEDIATE BURNING PAIN, SWELLING, DISCOLORATION. WEAKNESS AND SWEATING

SCORPION

- * 3 TO 4 INCHES LONG, EIGHT WALKING LEGS, TWO LARGE PINCERS, STINGER IN TIP OF CURVED TAIL
 - * LIGHT TAN TO RED OR DARK BROWN
 - * LIVES:
 - BURROWS UNDER STONES
 - LOOSE BARK ON TREES
 - AROUND HOUSES
 - * TRAITS
 - FEEDS ON INSECTS AT NIGHT
 - NOT AGGRESSIVE
 - STINGS WHEN BOTHERED
 - * BITE: INTENSE LOCAL PAIN, ANXIETY, SWEATING, VOMITING
- (SHAKE CLOTHING, CHECK BOOTS BEFORE WEAR)

BLACK WIDOW SPIDER

- * 1/2 TO 1 INCH IN SIZE
- * BLACK WITH YELLOW-RED STRIPES OR SPOTS
- * LIVES:
 - NEAR HOUSES, outhouses
 - TRASH DUMPS
- * TRAITS:
 - NOT AGGRESSIVE
- * BITE: MAY NOT BE FELT, MAY CAUSE LOCAL PAIN. LATER CAUSES PAIN THROUGHOUT BODY. FEVER, NAUSEA.

Common ROAD SIGNS

COMMON WORDS AND PHRASES PRONUNCIATION GUIDE (ARABIC - IRAQI DIALECT)

ENGLISH TERM -- PHONETIC SPELLING -- ("PRONUNCIATION")

COMMANDS/STATEMENTS

COME HERE -- TAAL -- ("TAH-AHL")

COME OUT -- ITLAH -- ("IT-LAH")

GO THERE -- RUH HINAK -- ("ROO-HEE-NAHK")

HANDS UP -- IRFAA IDAK -- ("EAR-FAH EE-DAHK")

HALT -- QIFF -- ("KIF")

I AM AN AMERICAN SOLDIER -- ANA JUNDI AMRIKI -
- ("AHNA JOON-DEE AHM-REE-KEE")

LAY DOWN YOUR WEAPONS -- ILQI SLAAHAK -
- ("ILL-KEE SLAH-HAHK")

SIT DOWN -- IJLIS -- ("IDG-LIS")

STAND UP -- QIFF -- ("KIF") (SAME AS HALT)

STAY THERE -- QIFF HINAK -- ("KIF HEE-NAHK")

YOU ARE A PRISONER -- INTA SAJEEN -- ("IN-TAH SAH-JEAN")

PHRASES

 THINGS

AMMUNITION - DHAKHIYRA - ("ZAA-KEE-RAH")

ARMORED PERSONNEL CARRIER - MUSHÁT ALIYYA -
- ("MOO-SHÓT AH-LEE-YAH")

ARTILLERY - MADFAIYA - ("MAHD-FAH-EE-YAH")

CIVILIAN - MÁDANIY - ("MAH-DAH-NEE")

FOOD - ÁKIL - ("EH-KIL")

HELICOPTER - HELICOPTER or TAIRA AMUDIYA -
- ("TAH-EE-RAH AH-MOO-DEE-YAH")

MINEFIELD/MINES - HAQIL ALGHÁM - ("HA-KILL ELL-GHAHM")

MINE (ONE EACH) - LÁGHAM - ("LAGH-HAHM")

SOLDIER - JÚNDI - ("JOONDEE")

SOLDIERS - JUNÚD - ("JOO-NUDE")

TANK - DÁBBÁBA - ("DAH-BAH-BAH")

WATER - MAYY - ("MAE")

WEAPON - SILÁH - ("SI-LAH")

WEAPONS - ASLIHÁH - ("AS-LEE-HAH")

 NUMBERS

0 1 2 3 4 5 6 7 8 9 10

• ١ ٢ ٣ ٤ ٥ ٦ ٧ ٨ ٩ ١٠

Common ROAD SIGNS



NO STANDING ON ODD
DAYS



NO STANDING ON EVEN
DAYS



NO PARKING



NO ENTRY



NO STANDING



MAX WIDTH 2 METERS



LOW CLEARANCE
BRIDGE



PASSAGE IN
BOTH DIRECTIONS



OPEN CROSSING

SIGNS



ANIMAL CROSSING



NARROW ROAD



CAUTION



BUMPY ROAD



DOUBLE CURVES



PEDESTRIAN CROSSING



DRAW BRIDGE



DANGEROUS INCLINE



POTHOLES



DIRECTION SIGN

AMBULANCE
CENTEREND OF
NO STANDING
ZONE

ADDITIONS/MODIFICATIONS

PG 14 T-72/T-72M1

SPEED: REDUCE TO 60 KM/H
REMARKS: HAS ACTIVE INFRARED SYSTEM

PG17 BMP-1

SPEED: REDUCE TO 65 KM/H
WEAPONRY: ALSO HAS SPANDREL OR SPIGOT ATGM
REMARKS: DRIVER AND GUNNER HAVE NIGHT VISION (II)

PG17 BMP-2

WEAPONRY: HAS SPIGOT OR SPANDREL ATGM
REMARKS: DRIVER AND GUNNER HAVE NIGHT VISION (II)

PG 20 MILAN

PENETRATION: REDUCE TO 800 MM

PG 22 2S1-SP
GUN/HOW

AMMO: ADD ILLUM, DP-ICM
SUSTAINED RATE OF FIRE: INCREASE TO 5-8 RDS/MIN

PG 22 D-20
GUN/HOW

AMMO: ADD WP, HE-RA
DELETE CP, AP-1, HEAT

PG 23 G-5
GUN/HOW

SUSTAINED RATE OF FIRE: CHANGE TO 2-3 RDS/MIN

PG 24 D-30 HOW

SUSTAINED RATE OF FIRE: INCREASE TO 7-8 RDS/MIN

PG 25 M-1937 (ML-20)
GUN/HOW

AMMO: ADD CHEMICAL

PG 25 M-1943 D-1 HOW

SUSTAINED RATE OF FIRE: INCREASE TO 4 RDS/MIN

PG 26 MOTAR (82 MM)

RANGE: INCREASE TO 4000 M
AMMO: ADD ILLUM

PG 28 ZSU-57-2

RATE OF FIRE: 105-120 RDS/MIN EA GUN
OR 210-240 RDS/MIN TOTAL

Documents Vertical File

How They Fight